

Name: _____ TP: _____

Failure to show work will result in a LaSalle.

Need help?

https://www.youtube.com/watch?v=eTSVTTg_QZ4

1) Solve (and check on your calculator!)

$$-4(7 + a) = -24$$

2) Solve (and check on your calculator!)

$$-1 = \frac{n - 7}{4}$$

3) Solve (and check on your calculator!)

$$-4a - a = -15$$

4) Solve (and check on your calculator!)

$$4k + 16 = 2 + 2k$$

5) Solve (and check on your calculator!)

$$a + 39 = 5(4 + 4a)$$

6) Solve (and check on your calculator!)

$$-7n + 5 = -4n + 14$$

7)

Solve for x : $3 - 4x = 13$

- A. $x = -13$
- B. $x = -4$
- C. $x = -2.5$
- D. $x = 2.5$
- E. $x = 4$

8)

If $\frac{3x}{2} + 10 = 4$, then $x = ?$

- A. $9\frac{1}{3}$
- B. 4
- C. $\frac{2}{3}$
- D. -4
- E. -9

9) Remember to check your answer when you finish!

. If $2x - 5 = 7x + 3$, then $x = ?$

- F. $-\frac{8}{5}$
- G. $-\frac{5}{8}$
- H. $-\frac{2}{5}$
- J. $\frac{2}{5}$
- K. $\frac{8}{9}$

10)

What is the value of $\frac{2}{3}f - 2d$ when $f = 6$ and $d = -3$?

- A. 24
- B. 10
- C. -2
- D. -6
- E. -24

XEI 401

11)

What is the value of $f(x) = 2x^2 - 3x + 4$ when $x = -4$?

- A. -48
- B. -40
- C. -16
- D. 48
- E. 80

FUN 401

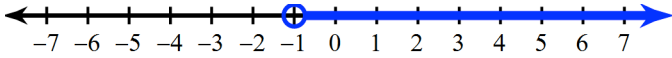
12)

CHALLENGE!. The expression $5m(-3m + 6n) - 9mn$ is equivalent to:

- F. $30mn - 8m$
- G. $21mn - 15m^2$
- H. $15mn - 9m^2$
- J. $6mn$
- K. $-15m^2$

INEQUALITIES

1a) Write an inequality that represents the graph below?

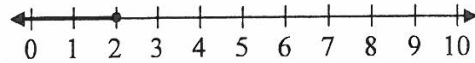


b) Is -1 a solution? *Why or why not?*

c) Is -10 a solution? *Why or why not?*

2a)

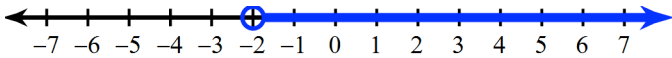
What inequality is shown on the number line?



- A. $x \leq 2$
- B. $x < 2$
- C. $x < -2$
- D. $x \neq 2$
- E. $0 < x < 2$

b) Is 2 a solution to the inequality? *Why or why not?*

3a) Write an inequality that represents the graph below?



b) Is 3 a solution? *Why or why not?*

4a) Graph the inequality $x > 6$:

b) Graph the inequality $x \leq -3$ or $x > 8$:

5) Your favorite watch is on sale! It usually cost \$42.00, but today they are available for 18% off. How much do they cost today?

6) A store is having a 24% off sale on \$17 bags. How much will you save?

7)

What is the value of $f(x) = 2x^2 - 3x + 4$ when $x = -4$?

- A. -48
- B. -40
- C. -16
- D. 48
- E. 80

FUN 401

8) Simplify:

$$(6x - 8y)(x + 5y)$$

9) Solve, do the math and give your reason for each step, and check your solution using your calculator!

$$-7n + 5 = -4n + 14$$

Math	Reason

10) Solve, do the math and give your reason for each step, and check your solution using your calculator!

$$-7 = \frac{-9 + m}{3}$$

Math	Reason

11)

9. If $\frac{3x}{2} + 10 = 4$, then $x = ?$

- A. $9\frac{1}{3}$
- B. 4
- C. $\frac{2}{3}$
- D. -4
- E. -9

12) Challenge!

Which of the following is a factored form of the expression $7x^2 + 10x - 8$?

- F. $(x - 1)(7x + 8)$
- G. $(x - 4)(7x + 2)$
- H. $(x - 8)(7x - 1)$
- J. $(x + 2)(7x - 4)$
- K. $(x + 4)(7x - 2)$